[INCH-POUND]
A-A-55506A
September 17, 2001
SUPERSEDING
A-A-55506B
December 25, 1993

COMMERCIAL ITEM DESCRIPTION

FILTER, RADIO FREQUENCY INTERFERENCE

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies.

1. SCOPE. This CID covers the general requirements for radio frequency interference (RFI) suppression power line filters. These filters consist of capacitors and inductors used in combination with each other and are provided with resistors as a safety feature. This series of RFI filters incorporate the special international Electrotechnical Commission (IEC) power line connector. Filters covered by this CID are intended for commercial/industrial applications and should not be used in military systems needing stringent environmental and electrical requirements.

2. CLASSIFICATION. This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see 7.1).

AA55506	-	01
CID number		Dash number

3. SALIENT CHARACTERISTICS.

3.1 Interface and physical dimensions. Filters supplied to this CID shall be as specified herein (see figures 1 and 2).

3.2. Voltage rating. The voltage rating shall be 120 V ac at 60 Hz; 250 V ac at 50 Hz.

3.3 Operating frequency. The operating frequency shall be 50/60 Hz.

3.4 Current rating. The current rating shall be as specified in table I.

3.5 Operating ambient temperature range. The operating ambient temperature range shall be -10°C to +40°C at rated current.

3.6 Maximum leakage current, line-to-ground. The maximum leakage current for configuration 1, line-to-ground, shall be 0.25 mA at 120 V ac, 60 Hz; .50 mA at 250 V ac, 50 Hz. The maximum leakage current for configuration 2, line-to-ground, shall be 0.5 mA at 120 V ac, 60 Hz; 1.0 mA at 250 V ac, 50 Hz.

3.7 Hipot rating (1 minute). The hipot rating shall be 2,250 V dc line-to-ground; 1,450 V dc line-to-line.

3.8 Insertion loss. Insertion loss is given for line-to-ground in a 50-ohm circuit. Values shall be as specified in table I.

3.9 Electrical schematics. The electrical schematics shall be as specified on figure 1.

3.10 Marking. Filters supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN.

Beneficial comments recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be addressed to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43213-1199, or telephone (614) 692-0562, or facsimile (FAX) (614) 693-1644.

AMSC N/A FSC 5915
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

TABLE I. Current rating and insertion loss.

PIN AA55506-	Current rating	Leakage current config.	Minimum insertion loss (dB) Line-to-ground in 50-ohm circuit						Minimum insertion loss (dB) Line-to-line 50-ohm circuit					
			Frequency (MHz)						Frequency (MHz)					
			.15	.5	1	5	10	30	.15	.5	1	5	10	30
01	3 A	2	15	30	38	50	50	50	---	---	48	55	50	35
02 1/	3 A	2	15	30	38	50	50	50	---	---	48	55	50	35
03	3 A	1	15	29	35	45	45	50	---	---	48	55	50	35
04 1/	3 A	1	15	29	35	45	45	50	---	---	48	55	50	35
05	5 A	2	6	19	28	42	45	50	---	---	30	50	30	30
06 1/	5 A	2	6	19	28	42	45	50	---	---	30	50	30	30
07	5 A	1	8	19	25	38	40	45	---	---	30	50	30	30
08 1/	5 A	1	8	19	25	38	40	45	---	---	30	50	30	30
09	10 A 2/	2	6	19	28	42	45	50	---	---	30	50	30	30
10 1/	10 A 2/	2	6	19	28	42	45	50	---	---	30	50	30	30
11	10 A 2/	1	8	19	25	38	40	45	---	---	30	50	30	30
12 1/	10 A 2/	1	8	19	25	38	40	45	---	---	30	50	30	30

1/ Equipped with metric insert.
2/ Limited to 6 amperes at 250 V ac by IEC connector.

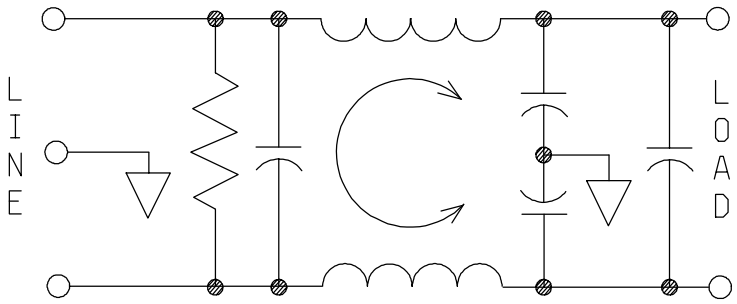
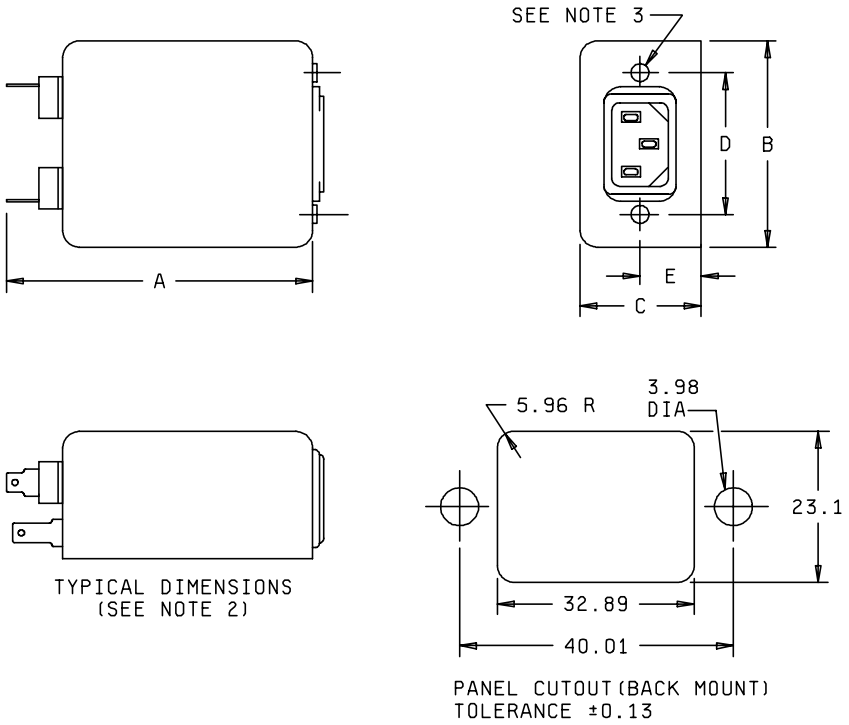


FIGURE 1. Electrical schematic.



Inches	mm
.005	0.13
.07	1.8
.157	3.98
.235	5.96
.250	6.35
.09	23.1
1.295	32.89
1.575	40.01

PIN AA55506-	A (max)		B (max)		C (max)		D ±.015/±.38		E (max)	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
01, 02	3.21	81.5	2.25	57.2	1.28	32.5	1.575	40.01	.63	16.0
03, 04	3.21	81.5	2.25	57.2	1.28	32.5	1.575	40.01	.63	16.0
05, 06	3.21	81.5	2.25	57.2	1.28	32.5	1.575	40.01	.63	16.0
07, 08	3.21	81.5	2.25	57.2	1.28	32.5	1.575	40.01	.63	16.0
09, 10	3.71	94.2	2.25	57.2	1.28	32.5	1.575	40.01	.63	16.0
11, 12	3.71	94.2	2.25	57.2	1.28	32.5	1.575	40.01	.63	16.0

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Fastons: (Three) .250 inch (6.35 mm).
   . Holes: .07 inch (1.8 mm) diameter.
4. Thread sizes: No. 6-32 x .250 (M-3 x .5) (2).
5. Metric equivalents are in parentheses.

FIGURE 2. Case configuration and dimensions.

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES.

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format example.

7.2 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these filters to DSCC under the Military Parts control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.3 Source of documents. This section is not applicable to this CID.

7.4 Ordering data. The contract or order should specify the following:

a. CID document number, revision, and CID PIN.

b. Product conformance provisions.

c. Packaging requirements.

7.5 Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers of commercial products. At the time of CID preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

MFR's CAGE	MFR's name and address
0S2B1	RME Filters, Incorporated P. O. Box 838 98 Route 101 A Amherst, NH 03031-0838
05245	CORCOM, Incorporated 844 East Rockland Road Libertyville, IL 60048
64135	Filter Concepts, Incorporated 2624 S. Rousselle Street Santa Ana, CA 92707

7.6 Part number (PIN) supersession data. This CID supersedes the following manufacturers' PIN's as shown. This information is being provided to assist in reducing proliferation in the government inventory system.

TABLE II. P/N supersession data.

PIN AA55506-	MFR's CAGE 0S2B1	MFR's CAGE 64135	MFR's CAGE 05245
	MFR's Commercial PIN 1/		
01	RME-A-203-C	-----	3VK7
02	RME-A-203-C-1	-----	3VK7M
03	RME-A-203-C-2	-----	3EK7
04	RME-A-203-C-3	-----	3EK7M
05	RME-A-205-C	LE5C	5VK7
06	RME-A-205-C-1	-----	5VK7M
07	RME-A-205-C-2	LE5C	5EK7
08	RME-A-205-C-3	-----	5EK7M
09	RME-A-210-C	-----	10VK7
10	RME-A-210-C-1	-----	10VK7M
11	RME-A-210-C-2	-----	10EK7
12	RME-A-210-C-3	-----	10EK7M

1/ The manufacturer's PIN shall not be used for procurement to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see 3.11.

7.7 Government users. To acquire information on obtaining these filters from the Government inventory system, contact Defense Supply Center Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000, telephone (614) 692-0562 or facsimile (614) 693-1644.

7.7.1 National stock number (NSN). The following is a list of NSN's assigned which correspond to this CID. The list is for information only and may not be indicative of all possible NSN's associated with the CID. For up to date information on assigned NSN's, please contact the aforementioned DSCC office (See 7.7).

MILITARY INTERESTS:

Custodians:
Navy - EC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity:

DLA-CC

Project 5915-0410